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(ENG) POLYOLEFIN COMPOSITION

Assignee: MITSUBISHI CHEM IND

[no drawing available]

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Abstract: (ENG) <sec>PURPOSE: A polyolefin composition suitable for extrusion or blow molding having improved impact and environmental stress cracking resistance, and processing characteristics, obtained by blending a high- molecular weight and a low-molecular weight polyolefins. CONSTITUTION: The title composition having a melt index not more than 0.05 comprising A) 30-70 parts by wt. of a polyolefin having a density of 0.915W0.955, a viscosity-average molecular weight of 300,000W7000,000, and a ratio of a weight- average molecular weight to a number-average molecular weight of 2-10:1, consisting of homopolyethylene or a copolymer of ethylene and an α-olefin except ethylene and B) 70-30 parts by wt. of a polyolefin having a density of 0.940-0.977, a viscosity-average molecular weight of 10,000-40,000, and a ratio of a weight-average molecular weight to a number-average molecular weight of 2-10:1, consisting of homopolyethylene or a copolymer of ethylene and an α- olefin except ethylene. A ratio of a viscosity- average molecular weight of A) to B) is 15-45: 1.</sec>

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